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Mantapa, Hennur-Bagalur
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Tel: +91-9980128412
E-mail: bmrceinfra@gmail.com

Date: 15/05/2020

Report No: BI/TR/2020-21/01

TEST REPORT ON MANUFACTURED SAND SAMPLE FOR M10 CONCRETE

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency: Sathya Construction
Project Name: Construction of CC drains and Development works in ward no 01.
Sample received on: 12/05/2020
Technical Reference: IS 2386(Part-1):1963 IS 2386(Part-3):1963, IS 383 - 2016
Date of Testing: 14/05/2020

Grain Size Distribution of M Sand					
Sl. No.	Sieve Size as per IS: 383 - 2016	% Passing	Standard Gradation as per IS 383- 2016 for		
			Zone I	Zone II	Zone III
1	10.0 mm	100.00%	100	100	100
2	4.75 mm	98.80%	90 - 100	90 - 100	90 - 100
3	2.36 mm	83.10%	60 - 95	75 - 100	85 - 100
4	1.18 mm	70.34%	30 - 70	55 - 90	75 - 100
5	600 μ	39.18%	15 - 34	35 - 59	60 - 79
6	300 μ	28.64%	5 - 20	8 - 30	12 - 40
7	150 μ	8.53%	0 - 10	0 - 10	0 - 10

The M Sand fulfill the requirement of Gradation of Zone II as per IS 383-2016.

Sl. No.	Description	Result
1	Bulk Density of Sand, g/cc	
	Loose	1.61
2	Specific Gravity of Sand	
	Compacted	1.85
		2.58

Note:

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Tel: +91-9980128412
E-mail: bmrceinfra@gmail.com

Date: 15/05/2020

Report No: BR/TR/2020-21/02

TEST REPORT ON COARSE AGGREGATE SAMPLE FOR M 10 CONCRETE

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency:
Project Name: Construction of CC drains and Development works in ward no 01.
Sample received on: 12/05/2020
Technical Reference: IS 2386(Part-1):1963 IS 2386(Part-3):1963, 1963 IS 2386(Part-4):1963, IS 383 - 2016
Date of Testing: 14/05/2020

Gradation of 40 mm down size Aggregates

SL.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	63 mm	100.00%	100	100
2	40 mm	95.36%	90 - 100	85 - 100
3	20 mm	44.20%	30 - 70	0 - 20
4	10 mm	12.35%	10 - 35	0 - 5
5	4.75 mm	3.35%	0 - 5	-

Gradation of 20 mm down size Aggregates

SL.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	40 mm	100.00%	100	100
2	20 mm	97.65%	95 - 100	85 - 100
3	10 mm	39.25%	25 - 55	0 - 20
4	4.75 mm	5.65%	0 - 10	0 - 5

Other Test Results

SL. No	Description	Result
1	Specific Gravity	2.66
2	Water Absorption of Aggregate	0.45%
3	Flakiness Index of Aggregate	9%
4	Elongation Index of Aggregate	16.25%

Note:

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Tel: +91-9980128412
E-mail: bmrceinfra@gmail.com

Date: 26/05/2020

Report No: BI/TR/2020-21/04

TEST REPORT ON CONCRETE CUBE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample receipt date 22/05/2020
Technical Reference IS 516 – 1959 (RA 2008)
Casting Date 16/05/2020
Location Drain Raft in Ward 01
Date of Testing 23/05/2020

Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm ²	Failure Load (KN)	Compressive Strength (N/mm ²)
1	7	M 10	22500	212	9.42
2	7	M 10	22500	229	10.18
3	7	M 10	22500	236	10.49

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Date: 21/05/2020

Report No: BI/TR/2020-21/06

TEST REPORT ON MANUFACTURED SAND SAMPLE FOR M10 CONCRETE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01.
Sample received on 18/05/2020
Technical Reference IS 2386(Part-1):1963 IS 2386(Part-3):1963, IS 383 - 2016
Date of Testing 20/05/2020

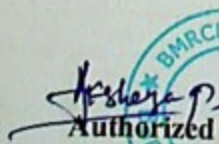
Grain Size Distribution of M Sand					
Sl. No.	Sieve Size as per IS: 383 - 2016	% Passing	Standard Gradation as per IS 383- 2016 for		
			Zone I	Zone II	Zone III
1	10.0 mm	100.00%	100	100	100
2	4.75 mm	98.00%	90 - 100	90 - 100	90 - 100
3	2.36 mm	83.12%	60 - 95	75 - 100	85 - 100
4	1.18 mm	65.84%	30 - 70	55 - 90	75 - 100
5	600 μ	49.13%	15 - 34	35 - 59	60 - 79
6	300 μ	25.62%	5 - 20	8 - 30	12 - 40
7	150 μ	7.36%	0 - 10	0 - 10	0 - 10

The M Sand fulfill the requirement of Gradation of Zone II as per IS 383-2016.

Sl. No.	Description	Result
1	Bulk Density of Sand, g/cc	
	Loose	1.63
2	Specific Gravity of Sand	Compacted
		1.88
		2.58

Note:

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Date: 21/05/2020

Report No: BI/TR/2020-21/07

TEST REPORT ON COARSE AGGREGATE SAMPLE FOR M 10 CONCRETE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01.
Sample received on 18/05/2020
Technical Reference IS 2386(Part-1):1963 IS 2386(Part-3):1963, 1963 IS 2386(Part-4):1963, IS 383 - 2016
Date of Testing 20/05/2020

Gradation of 40 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	63 mm	100.00%	100	100
2	40 mm	95.86%	90 - 100	85 - 100
3	20 mm	55.12%	30 - 70	0 - 20
4	10 mm	26.45%	10 - 35	0 - 5
5	4.75 mm	2.34%	0 - 5	-

Gradation of 20 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	40 mm	100.00%	100	100
2	20 mm	98.45%	95 - 100	85 - 100
3	10 mm	35.88%	25 - 55	0 - 20
4	4.75 mm	8.52%	0 - 10	0 - 5

Other Test Results		
Sl. No	Description	Result
1	Specific Gravity	2.66
2	Water Absorption of Aggregate	0.45%
3	Flakiness Index of Aggregate	8.00%
4	Elongation Index of Aggregate	15.40%

Note:

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Date: 21/05/2020

Report No: BI/TR/2020-21/08

TEST REPORT ON CEMENT SAMPLE FOR M 10 CONCRETE

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 01.
Sample received on	18/05/2020
Technical Reference	IS 4031 (Part 3), IS 4031 (Part 4), IS 4031 (Part 5)
Date of Testing	20/05/2020
Brand	Ultratech
Grade	53

Sl. No.	Description	Result	Permissible Limits as per IS: 8112 - 1987
1	Specific Gravity of Cement	3.09	-
2	Consistency Limit of Cement, %	32.00	-
3	Initial Setting Time of Cement, mins	111	Minimum 30 minutes
4	Final Setting Time of Cement, mins	210	Maximum 600 minutes
5	Soundness of Cement, mm	3	Maximum 10 mm
6	7 days Compressive Strength, N/mm ²	34.89	Minimum 33 N/mm ²
7	28 days Compressive Strength, N/mm ²	55.67	Minimum 53 N/mm ²

Note:

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Date: 30/05/2020

Report No: BI/TR/2020-21/09

TEST REPORT ON CONCRETE CUBE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample receipt date 26/05/2020
Technical Reference IS 516 – 1959 (RA 2008)
Casting Date 22/05/2020
Location Drain Raft in Ward 01
Date of Testing 29/05/2020

Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm ²	Failure Load (KN)	Compressive Strength (N/mm ²)
1	7	M 10	22500	210	9.33
2	7	M 10	22500	225	10.00
3	7	M 10	22500	213	9.47

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Date: 22/06/2020

Report No: BI/TR/2020-21/10

TEST REPORT ON CONCRETE CUBE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample receipt date 26/05/2020
Technical Reference IS 516 – 1959 (RA 2008)
Casting Date 22/05/2020
Location Drain Raft in Ward 01
Date of Testing 20/06/2020

Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm ²	Failure Load (KN)	Compressive Strength (N/mm ²)
1	28	M 10	22500	320	14.22
2	28	M 10	22500	365	16.22
3	28	M 10	22500	379	16.84

Note:

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Date: 30/05/2020

Report No: BI/TR/2020-21/11

TEST REPORT ON MANUFACTURED SAND SAMPLE FOR M10 CONCRETE

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency: Sathya Construction
Project Name: Construction of CC drains and Development works in ward no 01.
Sample received on: 26/05/2020
Technical Reference: IS 2386(Part-1):1963 IS 2386(Part-3):1963, IS 383 - 2016
Date of Testing: 28/05/2020

Grain Size Distribution of M Sand					
Sl. No.	Sieve Size as per IS: 383 - 2016	% Passing	Standard Gradation as per IS 383- 2016 for		
			Zone I	Zone II	Zone III
1	10.0 mm	100.00%	100	100	100
2	4.75 mm	96.32%	90 - 100	90 - 100	90 - 100
3	2.36 mm	89.48%	60 - 95	75 - 100	85 - 100
4	1.18 mm	65.98%	30 - 70	55 - 90	75 - 100
5	600 μ	49.03%	15 - 34	35 - 59	60 - 79
6	300 μ	18.98%	5 - 20	8 - 30	12 - 40
7	150 μ	5.42%	0 - 10	0 - 10	0 - 10

The M Sand fulfill the requirement of Gradation of Zone II as per IS 383-2016.

Sl. No.	Description	Result
1	Bulk Density of Sand, g/cc	
	Loose	1.64
	Compacted	1.89
2	Specific Gravity of Sand	2.58

Note:

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Tel: +91-9980128412
E-mail: bmrceinfra@gmail.com

Date: 30/05/2020

Report No: BI/TR/2020-21/13

TEST REPORT ON CEMENT SAMPLE FOR M 10 CONCRETE

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 01.
Sample received on	26/05/2020
Technical Reference	IS 4031 (Part 3), IS 4031 (Part 4), IS 4031 (Part 5)
Date of Testing	28/05/2020
Brand	Ultratech
Grade	53

Sl. No.	Description	Result	Permissible Limits as per IS: 8112 - 1987
1	Specific Gravity of Cement	3.08	-
2	Consistency Limit of Cement, %	34	-
3	Initial Setting Time of Cement, mins	115	Minimum 30 minutes
4	Final Setting Time of Cement, mins	234	Maximum 600 minutes
5	Soundness of Cement, mm	5	Maximum 10 mm
6	7 days Compressive Strength, N/mm ²	37.64	Minimum 33 N/mm ²
7	28 days Compressive Strength, N/mm ²	54.65	Minimum 53 N/mm ²

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Date: 10/06/2020

Report No: BI/TR/2020-21/14

TEST REPORT ON CONCRETE CUBE

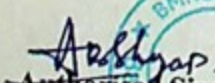
Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample receipt date 02/06/2020
Technical Reference IS 516 - 1959 (RA 2008)
Casting Date 30/05/2020
Location Drain Raft in Ward 01
Date of Testing 07/06/2020

Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm ²	Failure Load (KN)	Compressive Strength (N/mm ²)
1	7	M 10	22500	238	10.58
2	7	M 10	22500	246	10.93
3	7	M 10	22500	213	9.47

Note:

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Date: 18/06/2020

Report No: BI/ TR/2020-21/20

TEST REPORT ON CONCRETE CUBE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore .
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample receipt date 24/05/2020
Technical Reference IS 516 – 1959 (RA 2008)
Casting Date 18/05/2020
Location Drain Raft and Wall in Ward 01
Date of Testing 16/06/2020

Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm ²	Failure Load (KN)	Compressive Strength (N/mm ²)
1	28	M 20	22500	540	24.00
2	28	M 20	22500	598	26.58
3	28	M 20	22500	610	27.11

A.E.E Note:

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E-mail: bmrceinfra@gmail.com

Date: 22/05/2020

Report No: BI/TR/2020-21/26

TEST REPORT ON MANUFACTURED SAND SAMPLE FOR

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 01.
Sample received on	20/05/2020
Technical Reference	IS 2386(Part-1):1963 IS 2386(Part-3):1963, IS 383 - 2016
Date of Testing	21/05/2020

Grain Size Distribution of M Sand

Sl. No.	Sieve Size as per IS: 383 - 2016	% Passing	Standard Gradation as per IS 383- 2016 for		
			Zone I	Zone II	Zone III
1	10.0 mm	100.00%	100	100	100
2	4.75 mm	99.98%	90 - 100	90 - 100	90 - 100
3	2.36 mm	86.74%	60 - 95	75 - 100	85 - 100
4	1.18 mm	73.64%	30 - 70	55 - 90	75 - 100
5	600 μ	47.25%	15 - 34	35 - 59	60 - 79
6	300 μ	17.41%	5 - 20	8 - 30	12 - 40
7	150 μ	5.42%	0 - 10	0 - 10	0 - 10

The M Sand fulfill the requirement of Gradation of Zone II as per IS 383-2016.

Sl. No.	Description	Result
1	Bulk Density of Sand, g/cc	1.65
	Loose	
	Compacted	1.89
2	Specific Gravity of Sand	2.58

Note:

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Date: 22/05/2020

Report No: BI/TR/2020-21/27

TEST REPORT ON COARSE AGGREGATE SAMPLE FOR M 20 CONCRETE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample received on 20/05/2020
Technical Reference IS 2386(Part-1):1963 IS 2386(Part-3):1963, 1963 IS 2386(Part-4):1963, IS 383 - 2016
Date of Testing 21/05/2020

Gradation of 20 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	40 mm	100.00%	100	100
2	20 mm	93.25%	95 - 100	85 - 100
3	10 mm	4.65%	25 - 55	0 - 20
4	4.75 mm	1.02%	0 - 10	0 - 5

Gradation of 12.5 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	20 mm	100.00%	100	100
2	12.5 mm	90.26%	90 - 100	85 - 100
3	10 mm	11.54%	40 - 85	0 - 45
4	4.75 mm	0.99%	0 - 10	0 - 10

Other Test Results		
Sl. No	Description	Result
1	Specific Gravity	2.66
2	Water Absorption of Aggregate	0.45%
3	Flakiness Index of Aggregate	9.20%
4	Elongation Index of Aggregate	19.20%
5	Aggregate Impact Value	18.58%

Note:

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Date: 02/06/2020

Report No: BI/TR/2020-21/29

TEST REPORT ON CONCRETE CUBE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency Sthya Construction
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample receipt date 26/05/2020
Technical Reference IS 516 – 1959 (RA 2008)
Casting Date 24/05/2020
Location Drain Raft in Ward 01
Date of Testing 01/06/2020

Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm ²	Failure Load (KN)	Compressive Strength (N/mm ²)
1	7	M 20	22500	423	18.80
2	7	M 20	22500	456	20.27
3	7	M 20	22500	420	18.67

Note:

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Date: 24/06/2020

Report No: BI/TR/2020-21/30

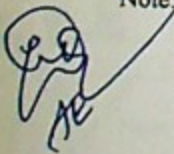
TEST REPORT ON CONCRETE CUBE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample receipt date 26/05/2020
Technical Reference IS 516 – 1959 (RA 2008)
Casting Date 24/05/2020
Location Drain Raft and Wall in Ward 01
Date of Testing 22/06/2020

Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm ²	Failure Load (KN)	Compressive Strength (N/mm ²)
1	28	M 20	22500	546	24.27
2	28	M 20	22500	526	23.38
3	28	M 20	22500	598	26.58

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E-mail: bmrceinfra@gmail.com

Date: 30/05/2020

Report No: BI/TR/2020-21/33

TEST REPORT ON CEMENT SAMPLE FOR M 20 CONCRETE

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 01.
Sample received on	26/05/2020
Technical Reference	IS 4031 (Part 3), IS 4031 (Part 4), IS 4031 (Part 5)
Date of Testing	28/05/2020
Brand	Ultratech
Grade	53

Sl. No.	Description	Result	Permissible Limits as per IS: 8112 - 1987
1	Specific Gravity of Cement	3.10	-
2	Consistency Limit of Cement, %	34.00	-
3	Initial Setting Time of Cement, mins	118	Minimum 30 minutes
4	Final Setting Time of Cement, mins	231	Maximum 600 minutes
5	Soundness of Cement, mm	5	Maximum 10 mm
6	7 days Compressive Strength, N/mm ²	37.00	Minimum 33 N/mm ²
7	28 days Compressive Strength, N/mm ²	56.58	Minimum 53 N/mm ²

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E-mail: bmrceinfra@gmail.com

Date: 01/06/2020

Report No: BI/TR/2020-21/37

TEST REPORT ON COARSE AGGREGATE SAMPLE FOR M 20 CONCRETE

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01 and 02.
Sample received on 28/05/2020
Technical Reference IS 2386(Part-1):1963 IS 2386(Part-3):1963, 1963 IS 2386(Part-4):1963, IS 383 - 2016
Date of Testing 30/05/2020

Gradation of 20 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	40 mm	100.00%	100	100
2	20 mm	87.81%	95 - 100	85 - 100
3	10 mm	16.42%	25 - 55	0 - 20
4	4.75 mm	3.13%	0 - 10	0 - 5

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Gradation of 12.5 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	20 mm	100.00%	100	100
2	12.5 mm	96.26%	90 - 100	85 - 100
3	10 mm	25.98%	40 - 85	0 - 45
4	4.75 mm	4.79%	0 - 10	0 - 10

A.E.E

Other Test Results		
Sl. No	Description	Result
1	Specific Gravity	2.66
2	Water Absorption of Aggregate	0.45%
3	Flakiness Index of Aggregate	9.05%
4	Elongation Index of Aggregate	18.11%
5	Aggregate Impact Value	17.89%

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Report No: BI/TR/2020-21/41

TEST REPORT ON MANUFACTURED SAND SAMPLE FOR

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency: Sathya Construction
Project Name: Construction of CC drains and Development works in ward no 01.
Sample received on: 02/06/2020
Technical Reference: IS 2386(Part-1):1963 IS 2386(Part-3):1963, IS 383 - 2016
Date of Testing: 04/05/2020

Grain Size Distribution of M Sand					
Sl. No.	Sieve Size as per IS: 383 - 2016	% Passing	Standard Gradation as per IS 383- 2016 for		
			Zone I	Zone II	Zone III
1	10.0 mm	100.00%	100	100	100
2	4.75 mm	96.85%	90 - 100	90 - 100	90 - 100
3	2.36 mm	89.54%	60 - 95	75 - 100	85 - 100
4	1.18 mm	69.75%	30 - 70	55 - 90	75 - 100
5	600 μ	51.21%	15 - 34	35 - 59	60 - 79
6	300 μ	17.58%	5 - 20	8 - 30	12 - 40
7	150 μ	6.45%	0 - 10	0 - 10	0 - 10

The M Sand fulfill the requirement of Gradation of Zone II as per IS 383-2016.

Sl. No.	Description	Result
1	Bulk Density of Sand, g/cc	
	Loose	1.63
2	Specific Gravity of Sand	1.89
	Compacted	2.58

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E-mail: bmrceinfra@gmail.com

Date: 12/06/2020

Report No:BI/TR/2020-21/46

TEST REPORT ON MANUFACTURED SAND SAMPLE FOR

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency: Sathya Construction
Project Name: Construction of CC drains and Development works in ward no 01.
Sample received on: 08/06/2020
Technical Reference: IS 2386(Part-1):1963 IS 2386(Part-3):1963), IS 383 - 2016
Date of Testing: 10/06/2020

Grain Size Distribution of M Sand					
Sl. No.	Sieve Size as per IS: 383 - 2016	% Passing	Standard Gradation as per IS 383- 2016 for		
			Zone I	Zone II	Zone III
1	10.0 mm	100.00%	100	100	100
2	4.75 mm	92.56%	90 - 100	90 - 100	90 - 100
3	2.36 mm	90.12%	60 - 95	75 - 100	85 - 100
4	1.18 mm	88.02%	30 - 70	55 - 90	75 - 100
5	600 μ	56.42%	15 - 34	35 - 59	60 - 79
6	300 μ	28.58%	5 - 20	8 - 30	12 - 40
7	150 μ	9.06%	0 - 10	0 - 10	0 - 10

The M Sand fulfill the requirement of Gradation of Zone II as per IS 383-2016.

Sl. No.	Description	Result
1	Bulk Density of Sand, g/cc	
	Loose	1.61
2	Specific Gravity of Sand	1.86
	Compacted	2.58

Note:

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Date: 12/06/2020

Report No: BI/TR/2020-21/47

TEST REPORT ON COARSE AGGREGATE SAMPLE FOR M 20 CONCRETE

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency: Sathya Construction
Project Name: Construction of CC drains and Development works in ward no 01.
Sample received on: 08/06/2020
Technical Reference: IS 2386(Part-1):1963 IS 2386(Part-3):1963, 1963 IS 2386(Part-4):1963, IS 383 - 2016
Date of Testing: 10/06/2020

Gradation of 20 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	40 mm	100.00%	100	100
2	20 mm	86.44%	95 - 100	85 - 100
3	10 mm	15.02%	25 - 55	0 - 20
4	4.75 mm	1.01%	0 - 10	0 - 5

Gradation of 12.5 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	20 mm	100.00%	100	100
2	12.5 mm	91.00%	90 - 100	85 - 100
3	10 mm	23.56%	40 - 85	0 - 45
4	4.75 mm	4.91%	0 - 10	0 - 10

Other Test Results		
Sl. No	Description	Result
1	Specific Gravity	2.66
2	Water Absorption of Aggregate	0.45%
3	Flakiness Index of Aggregate	11.62%
4	Elongation Index of Aggregate	18.00%
5	Aggregate Impact Value	21.06%

Note:

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TEST REPORT ON TMT STEEL – 10MM DIA

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Report No: BI/TR/2020-21/TMT/03

TEST REPORT ON TMT STEEL – 12MM DIA

Name of Client Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency Sathya Construction
Project Name Construction of CC drains and Development works in ward no 01.
Sample receipt date 24/05/2020
Technical Reference IS 1786
Location RCC Drain Reinforcement
Date of Testing 26/05/2020

SL No	Details	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	12.0 mm	12.0 mm
02	Observed Wt/m Length Kg/m	0.896	0.834

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Report No: BI/TR/2020-21/GSB/02

TEST REPORT ON GRANULAR SUBBASE SAMPLE

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency: Sathya Construction
Project Name: Construction of CC drains and Development works in ward no 01.
Sample received on: 02/06/2020
Technical Reference: IS 2386(Part-1):1963 IS 2386(Part-3):1963, IS 383 - 2016
Date of Testing: 02/06/2020

Gradation of Granular Subbase Grade V			
Sl. No.	Sieve Size	% Passing	Standard Gradation as per MoRT&H V Revision
1	75.0 mm	100.00%	Gr V
2	53.0 mm	98.88%	100
3	26.5 mm	67.89%	80 - 100
4	9.5 mm	40.12%	55 - 90
5	4.75 mm	30.78%	35 - 65
6	2.36 mm	12.78%	25 - 50
7	0.85 mm	5.55%	10 - 20
8	0.425 mm	1.58%	2 - 10
			0 - 5
The GSB Sample fulfills the requirement of Gradation of Grade V as per MoRT&H V Revision - 2013			

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TEST REPORT ON WET MIX MACADAM SAMPLE

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 01.
Sample received on	10/06/2020
Technical Reference	IS 2386(Part-1):1963 IS 2386(Part-3):1963, IS 383 - 2016
Date of Testing	10/06/2020

Gradation of Wet Mix Macadam			
Sl. No.	Sieve Size	% Passing	Standard Gradation as per MoRT&H V Revision
1	53.0 mm	100.00%	100
2	45.0 mm	98.16%	95 - 100
3	22.4 mm	77.77%	60 - 80
4	11.2 mm	53.33%	40 - 60
5	4.75 mm	37.14%	25 - 40
6	2.36 mm	27.59%	15 - 30
7	0.60 mm	12.58%	8 - 22
8	0.075 mm	3.78%	0 - 5

The Wet Mix Macadam Sample fulfills the requirement of Gradation as per MoRT&H V Revision - 2013

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Date: 23/06/2020

Report No: BI/TR/2020-21/DBM/01

TEST REPORT ON BINDER CONTENT FOR DBM Gr - II

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 01
Date of Laying	22/06/2020
Technical Reference	IRC: SP-11 (ASTM 2172)
Date of Testing	22/06/2020

BINDER CONTENT				
Sl. No.	DESCRIPTION	Trial 1	Trial 2	Average
1	Weight of mix, W (gm.)	502	501	4.56%
2	Weight of sample (Bowl + Mix) before extraction, W ₁ (gm.)	702	701	
3	Weight of sample (Bowl + Mix) after extraction, W ₂ (gm.)	678	678	
4	Weight of filter paper before extraction, W ₃ (gm.)	12.1	12.1	
5	Weight of filter paper after extraction, W ₄ (gm.)	13	12.5	
6	Bitumen content by wt. of mix % = $[(W_1 - W_2) - (W_4 - W_3)]/W \times 100$	4.60	4.51	

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Date: 27/06/2020

Report No: BI/TR/2020-21/DBM/05

TEST REPORT ON BINDER CONTENT FOR DBM Gr - II

Name of Client
Name of Agency
Project Name
Date of Laying
Technical Reference
Date of Testing

Executive Engineer, BBMP Yelahanka Division, Bangalore.
Sathya Construction
Construction of CC drains and Development works in ward no 01
26/06/2020
IRC: SP-11 (ASTM 2172)
26/06/2020

BINDER CONTENT				
Sl. No.	DESCRIPTION	Trial 1	Trial 2	Average
1	Weight of mix, W (gm.)	501	501	4.57%
2	Weight of sample (Bowl + Mix) before extraction, W ₁ (gm.)	701	701	
3	Weight of sample (Bowl + Mix) after extraction, W ₂ (gm.)	677	677	
4	Weight of filter paper before extraction, W ₃ (gm.)	12.1	12.1	
5	Weight of filter paper after extraction, W ₄ (gm.)	13.1	13.3	
6	Bitumen content by wt. of mix % = $[(W_1 - W_2) - (W_4 - W_3)]/W \times 100$	4.59	4.55	

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Date: 27/06/2020

Report No: BI/TR/2020-21/DBM/13

TEST REPORT ON BINDER CONTENT FOR DBM Gr - II

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 01
Date of Laying	26/06/2020
Technical Reference	IRC: SP-11 (ASTM 2172)
Date of Testing	26/06/2020

BINDER CONTENT				
Sl. No.	DESCRIPTION	Trial 1	Trial 2	Average
1	Weight of mix, W (gm.)	501	501	4.57%
2	Weight of sample (Bowl + Mix) before extraction, W ₁ (gm.)	701	701	
3	Weight of sample (Bowl + Mix) after extraction, W ₂ (gm.)	677	677	
4	Weight of filter paper before extraction, W ₃ (gm.)	12.1	12.1	
5	Weight of filter paper after extraction, W ₄ (gm.)	13.1	13.3	
6	Bitumen content by wt. of mix % = $[(W_1 - W_2) - (W_4 - W_3)]/W \times 100$	4.59	4.55	

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Date: 03/07/2020

Report No: BI/TR/2020-21/BC/01

TEST REPORT ON BINDER CONTENT FOR BC – Gr II

Name of Client
Name of Agency
Project Name
Date of Laying
Technical Reference
Date of Testing

Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Sathya Construction
Construction of CC drains and Development works in ward no 01
02/07/2020
IRC: SP-11 (ASTM 2172)
02/07/2020

BINDER CONTENT				
Sl. No.	DESCRIPTION	Trial 1	Trial 2	Average
1	Weight of mix, W (gm.)	511	509	5.42%
2	Weight of sample (Bowl + Mix) before extraction, W ₁ (gm.)	711	709	
3	Weight of sample (Bowl + Mix) after extraction, W ₂ (gm.)	683	681	
4	Weight of filter paper before extraction, W ₃ (gm.)	12	12.5	
5	Weight of filter paper after extraction, W ₄ (gm.)	12.4	12.8	
6	Bitumen content by wt. of mix % = $[(W_1 - W_2) - (W_4 - W_3)]/W \times 100$	5.40	5.44	

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Date: 03/07/2020

Report No: BI/TR/2020-21/BC/09

TEST REPORT ON BINDER CONTENT FOR BC - Gr II

Name of Client
Name of Agency
Project Name
Date of Laying
Technical Reference
Date of Testing

Executive Engineer, BBMP Yelahanka Division, Bangalore.
Sathya Construction
Construction of CC drains and Development works in ward no 01
02/07/2020
IRC: SP-11 (ASTM 2172)
02/07/2020

BINDER CONTENT				
Sl. No.	DESCRIPTION	Trial 1	Trial 2	Average
1	Weight of mix, W (gm.)	511	509	5.42%
2	Weight of sample (Bowl + Mix) before extraction, W ₁ (gm.)	711	709	
3	Weight of sample (Bowl + Mix) after extraction, W ₂ (gm.)	683	681	
4	Weight of filter paper before extraction, W ₃ (gm.)	12	12.5	
5	Weight of filter paper after extraction, W ₄ (gm.)	12.4	12.8	
6	Bitumen content by wt. of mix % = $[(W_1 - W_2) - (W_4 - W_3)]/W \times 100$	5.40	5.44	

Note:

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Date: 15/05/2020

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Report No: BI/TR/2020-21/53

TEST REPORT ON CEMENT SAMPLE FOR M 10 CONCRETE

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 02,
Sample received on	12/05/2020
Technical Reference	IS 4031 (Part 3), IS 4031 (Part 4), IS 4031 (Part 5)
Date of Testing	14/05/2020
Brand	Ultratech
Grade	53

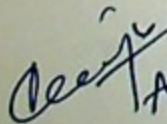
Sl. No.	Description	Result	Permissible Limits as per IS: 8112 - 1987
1	Specific Gravity of Cement	3.09	-
2	Consistency Limit of Cement, %	34.00	-
3	Initial Setting Time of Cement, mins	98	Minimum 30 minutes
4	Final Setting Time of Cement, mins	212	Maximum 600 minutes
5	Soundness of Cement, mm	3	Maximum 10 mm
6	7 days Compressive Strength, N/mm ²	36.85	Minimum 33 N/mm ²
7	28 days Compressive Strength, N/mm ²	56.98	Minimum 53 N/mm ²

Note:

1. The results relate only to the items tested.
2. Any corrections will invalidate this report.
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AE-1
A.E.E


Authorized Signature


AE-02

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Date: 21/05/2020

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Report No: BI/TR/2020-21/57

TEST REPORT ON COARSE AGGREGATE SAMPLE FOR M 10 CONCRETE

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency: Sathya Construction
Project Name: Construction of CC drains and Development works in ward no 02.
Sample received on: 18/05/2020
Technical Reference: IS 2386(Part-1):1963 IS 2386(Part-3):1963, 1963 IS 2386(Part-4):1963, IS 383 - 2016
Date of Testing: 20/05/2020

Gradation of 40 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	63 mm	100.00%	100	100
2	40 mm	98.36%	90 - 100	85 - 100
3	20 mm	64.09%	30 - 70	0 - 20
4	10 mm	33.33%	10 - 35	0 - 5
5	4.75 mm	2.14%	0 - 5	-

Gradation of 20 mm down size Aggregates				
Sl.No	Sieve Size,	% Passing	Standard Gradation as per IS:383- 2016 for	
			Graded Size	Single Size
1	40 mm	100.00%	100	100
2	20 mm	97.65%	95 - 100	85 - 100
3	10 mm	32.68%	25 - 55	0 - 20
4	4.75 mm	6.71%	0 - 10	0 - 5

Other Test Results		
Sl. No	Description	Result
1	Specific Gravity	
2	Water Absorption of Aggregate	2.66
3	Flakiness Index of Aggregate	0.45%
4	Elongation Index of Aggregate	11.65%
		17.40%

Note:

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Report No: BI/TR/2020-21/59

TEST REPORT ON CONCRETE CUBE

Name of Client: Executive Engineer, BBMP Yelahanka Division, Bangalore.
Name of Agency: Sathya Construction
Project Name: Construction of CC drains and Development works in ward no 02 and 02.
Sample receipt date: 26/05/2020
Technical Reference: IS 516 - 1959 (RA 2008)
Casting Date: 22/05/2020
Location: Drain Raft in Ward 02
Date of Testing: 29/05/2020

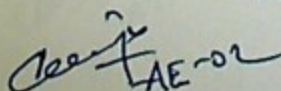
Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm ²	Failure Load (KN)	Compressive Strength (N/mm ²)
1	7	M 10	22500	220	9.78
2	7	M 10	22500	235	10.44
3	7	M 10	22500	240	10.67

Note:

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